

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (original): A process for producing an epoxide comprising reacting an olefin, hydrogen and oxygen in the presence of a catalyst mixture comprising a palladium-containing titanium zeolite and a palladium-free titanium zeolite.
2. (original): The process of claim 1 wherein the palladium-containing titanium zeolite comprises palladium and a titanium silicalite.
3. (original): The process of claim 2 wherein the titanium silicalite is TS-1.
4. (original): The process of claim 1 wherein the palladium-containing titanium zeolite comprises palladium, a titanium zeolite, and a noble metal selected from the group consisting of platinum, gold, silver, iridium, rhenium, ruthenium, osmium, and mixtures thereof.
5. (original): The process of claim 4 wherein the noble metal is selected from the group consisting of platinum, gold, and mixtures thereof.
6. (original): The process of claim 1 wherein the palladium-containing titanium zeolite comprises from about 0.01 to about 10 weight percent palladium.
7. (original): The process of claim 1 wherein the palladium-free titanium zeolite is a titanium silicalite.
8. (original): The process of claim 1 wherein the palladium-free titanium zeolite is TS-1.
9. (original): The process of claim 1 wherein the olefin is a C₂-C₆ olefin.
10. (original): The process of claim 1 wherein the olefin is propylene.
11. (original): The process of claim 1 wherein reaction of olefin, hydrogen and oxygen is performed in a solvent.

12. (original): The process of claim 11 wherein the solvent is selected from the group consisting of water, C₁-C₄ alcohols, supercritical CO₂, and mixtures thereof.

13. (original): The process of claim 11 wherein the solvent contains a buffer.

14. (original): A process comprising reacting propylene, hydrogen and oxygen in a solvent in the presence of a catalyst mixture comprising a palladium-containing titanium silicalite and palladium-free TS-1, wherein the palladium-containing titanium silicalite comprises palladium and a titanium silicalite.

15. (original): The process of claim 14 wherein the titanium silicalite is TS-1.

16. (original): The process of claim 14 wherein the palladium-containing titanium zeolite further comprises a noble metal selected from the group consisting of platinum, gold, silver, iridium, rhenium, ruthenium, osmium, and mixtures thereof.

17. (original): The process of claim 14 wherein the solvent is selected from the group consisting of water, C₁-C₄ alcohols, supercritical CO₂, and mixtures thereof.

18. (original): The process of claim 14 wherein the solvent contains a buffer.

19. (canceled)

20. (canceled)